



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

### Title of Invention

Migrating Virtual Machines Among Computer Systems to  
Balance Load Caused by Virtual Machines

Application Number : 10/616437



Confirmation Number: 9169

First Named Applicant: Hans vanRietschote

Attorney Docket Number: 5760-12200

Art Unit: 2183

Examiner:

Search string: ( 6763440 or 6003065 or 6789103 ).pn

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6763440	2004-07-13	Traversat et al			
	2	6003065	1999-12-14	Yan et al			
	3	6789103	2004-09-07	Kim et al			

### Signature

Examiner Name	Date
<i>[Signature]</i>	5/29/05

duplicate  
IDS filed  
on 4/4/05  
(C1-C3)



[illegible]

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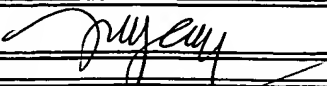
Information Disclosure Statement--PTO 1449 (modified)



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Art Unit: 2183							
Search string: ( 5408617 or 5257386 or 6151618 or 20030033431 or 20010016879 ).pn.							
<b>US Patent Documents</b>							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	5408617	1995-04-18	Yoshida			
<input type="checkbox"/>	2	5257386	1993-10-26	Saito			
<input checked="" type="checkbox"/>	3	6151618	2000-11-21	Wahbe et al			
<b>US Published Applications</b>							
Note: Applicant is not required to submit a paper copy of cited US Published Applications							
init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	20030033431	2003-02-13	Shinomiya			
<input checked="" type="checkbox"/>	2	20010016879	2001-08-23	Sekiguchi et al			
<b>Signature</b>							
Examiner Name				Date			
				5/29/05			

**Form PTO-1449** (modified)

List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ACTY. DKT. NO. 5760-12200

APPLICANT: van Rietschote, et al.

FILING DATE: July 9, 2003

SERIAL NO. 10/616,437

GROUP: 2183

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

Cy	B1	Sapuntzakis, et al., "Optimizing the Migration of Virtual Computers," Proceedings of the Fifth Symposium on Operating Systems Design and Implementation, December 2002, 14 pages.
	B2	Helfrich, et al., "Internet Suspend/Resume," ISR Project Home Page, 2003, 4 pages.
	B3	Kozuch, et al., "Internet Suspend/Resume," IRP-TR-02-01, April 2002, Accepted to the Fourth IEEE Workshop on Mobile Computing Systems and Applications, Callicoon, NY, June 2002, Intel Research, 9 pages.
	B4	Kozuch, et al., "Efficient State Transfer for Internet Suspend/Resume," IRP-TR-02-03, May 2002, Intel Research, 13 pages.
	B5	Tolia, et al., "Using Content Addressing to Transfer Virtual Machine State," IRP-TR-02-11, Summer 2002, Intel Research, 11 pages.
	B6	Flinn, et al., "Data Staging on Untrusted Surrogates," IRP-TR-03-03, March 2003, Intel Research, To Appear in the Proceedings of the 2 <sup>nd</sup> USENIX Conference on File and Storage Technologies, San Francisco, 16 pages.
	B7	Tolia, et al., "Opportunistic Use of Content Addressable Storage for Distributed File Systems," IRP-TR-03-02, June 2003, Intel Research, To Appear in the Proceedings of the 2003 USENIX Annual Technical Conference, San Antonio, TX, 16 pages.

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Information Disclosure Statement--PTO 1449 (modified)

**Form PTO-1449** (modified)

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ATTY. DKT. NO. 5760-12200

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SERIAL NO. 10/616,437

GROUP: Unknown

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
C	A1	5,944,782	8/31/99	Noble, et al.			
	A2	5,872,931	2/16/99	Chivaluri			
	A3	5,852,724	12/22/98	Glenn, II, et al.			
	A4	6,029,166	2/22/00	Mutalik, et al.			
	A5	6,363,462	3/26/02	Bergsten			
	A6	6,341,329	1/22/02	LeCrone, et al.			
	A7	6,324,627	11/27/01	Kricheff, et al.			
	A8	6,298,428	10/2/01	Munroe, et al.			
	A9	6,298,390	10/2/01	Matena, et al.			
	A10	6,075,938	6/13/00	Bugnion, et al.			
	A11	5,621,912	4/15/97	Borruso, et al.			
	A12	4,969,092	11/6/90	Shorter			
✓	A13	4,912,628	3/27/90	Briggs			

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

C	A14	VMware, Inc., "VMware Control Center," 2003, 3 pages.					
	A15	InfoWorld, Robert McMillan, "VMware Launches VMware Control Center," 2003, 2 pages.					
	A16	VMware, Inc., "VMware Control Center: Enterprise-class Software to Manage and Control Your Virtual Machines," 2003, 2 pages.					
	A17	John Abbott, Enterprise Software, "VMware Heads Toward Utility Computing With New Dynamic Management Tools," July 1, 2003, 4 pages.					
	A18	Dejan S. Milogicic, et al., "Process Migration," August 10, 1999, 49 pages.					
	A19	Xian-He Sun, et al., "A Coordinated Approach for Process Migration in Heterogeneous Environments," 1999, 12 pages.					
✓	A20	Kasidit Chanchio, et al., "Data Collection and Restoration for Heterogeneous Process Migration," 1997, 6 pages.					

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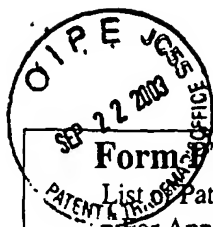
<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5760-12200  APPLICANT: van Rietschote, et al.  FILING DATE: July 9, 2003	SERIAL NO. 10/616,437  GROUP: Unknown
<b>OTHER ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)			
A21	Kasidit Chanchio, et al., "A Protocol Design of Communication State Transfer for Distributed Computing," Publication date unknown, 4 pages.		
A22	SourceForge™, "Project: openMosix: Document Manager: Display Document," 14 pages.		
A23	OpenMosix, "The openMosix HOWTO: Live free() or die (), " May 7, 2003, 3 pages.		
A24	OpenMosix, "openMosix Documentation Wiki - don't," May 7, 2003, 2 pages.		
A25	Veritas, "Executive Overview," Technical Overview, pages 1-9.;		
A26	Kinshuk Govil, et al., "Cellular Disco: Resource Management Using Virtual Clusters on Shared-Memory Multiprocessors," 17 <sup>th</sup> ACM Symposium on Operating Systems Principles (SOSP99), Published as Operating Systems Review 34(5):154-169, December 1999, pages 154-169.		
A27	Edouard Bugnion, et al., "Disco: Running Commodity Operating Systems on Scalable Multiprocessors," Computer Systems Laboratory, Stanford, CA, 33 pages.		
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A29	"Vmware GSX Serve, The Server Consolidation Solution," VMware, Inc., 2001, 2 pages.		
A30	"Manage Multiple Worlds., From Any Desktop," VMware, Inc., 2000, 2 pages.		
A31	"VMware ESX Server, The Server Consolidatdon Solution for High-Performance Environments," VMware, Inc., 2001, 2 pages.		
A32	Melinda Varian, "VM and the VM Community: Past, Present, and Future," Operating Systems, Computing and Information Technology, Princeton Univ., August 1997, pp. 1-67.		
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A34	VERITAS, " How VERITAS Volume Manager Complements Hardware RAID in Microsoft Server Environments," May 2001, pp. 1-7.		
A35	VERITAS, "VERITAS Volume Manager for Windows, Best Practices," May 2001, pp. 1-7.		
A36	Barrie Sosinky, Ph.D., "The Business Value of Virtual Volume Management, In Microsoft Window NT and Windows 2000 Netowrks," VERITAS, A white paper for administrators and planners, October 2001, pp.1-12.		
A37	VERITAS, "VERITAS Volume Manager for Windows NT," Version 27, 2001, 4 pages.		
A38	"BladeFram™ System Overview," Egenera, Inc., 2001 2 pages.		
A39	White Paper, "The Egenera™ Processing Area Network (PAN) Architecture," Egenera, Inc., 2002, 20 pages.		
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<b>OTHER ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)			
9	A43	White Paper, "The Pros and Cons of Server Clustering in the ASP Environment," Egenera, Inc., 2001, 10 pages.	
	A44	Position Paper, "Taking Control of The Data Center," Egenera, Inc., 2001, 4 pages.	
	A45	Position Paper, "The Linux Operating System: How Open Source Software Makes Better Hardware," Egenera, Inc., 2001, 2 pages.	
	A46	"Solution Overview," TrueSAN Networks, Inc., 2002, 7 pages.	
	A47	"Simics: A Full System Simulation Platform," Reprinted with permission from Computer, February 2002, © The Institute of Electrical and Electronics Engineering, Inc., pp. 50-58.	
	A48	"Introduction to Simics Full-System Simulator without Equal," Virtutech, July 8, 2002, 29 pages.	
	A49	"The Technology of Virtual Machines," A Connectix White Paper, Connectix Corp., 2001, 13 pages.	
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